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10/539,085	07/26/2005	Gavin R. Erry	124-1120	9068
23117 NIXON & VAI	7590 06/22/200 NDERHYE, PC	EXAMINER		
901 NORTH G	LEBE ROAD, 11TH F	PRITCHETT, JOSHUA L		
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1)⊠ Responsive to communication(s) filed on 26 July 2005. 2a)□ This action is FINAL. 2b)⊠ This action is non-final. 3]□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)⊠ Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)□ Claim(s) is/are allowed. 6)☒ Claim(s) is/are eljected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement. Application Papers 9)☒ The specification is objected to by the Examiner. 10)☒ The drawing(s) filed on 26 July 2005 is/are: a)☒ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☒ All b)□ Some * c)□ None of: 1.☒ Certified copies of the priority documents have been received. 2.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.			Application No.	Applicant(s)		
Salarian	Office Action Summary		10/539,085	ERRY ET AL.		
The MAILNG DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions or therm may be emissible under the provision of 37°CFR 1.130(a). In covern, however, may a reply be thinly filed with the contraction of the may be emissible under the provision of 37°CFR 1.130(a). In covern, however, may a reply be thinly filed with the contraction of the maining date of this communication. Failute to reply within the set or contended period for reply with by statute to see part of the contraction of the contraction of the contraction of the contraction. Failute to reply within the set or contraction of the provision of the contraction of the contraction. Failute to reply within the set or contraction of the provision of the contraction. Failute to reply within the set or contraction of the provision of the contraction. Failute to reply within the set or contraction of the contraction. This action is FINAL 20 or This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-23 is/are pending in the application. 4) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-23 is/are rejected. 7) Claim(s) 3/Claim(s) 3/Claim(s			Examiner	Art Unit		
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Art Unit: 2872

DETAILED ACTION

This action is in response to Preliminary Amendment filed July 26, 2005. Claims 1-5, 10 and 15 have been amended as requested by the applicant.

Specification

The disclosure is objected to because of the following informalities: the specification contains no section headings.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3-6, 8-11, 14-16, 18, 22 and 23 are rejected under 35 U.S.C. 102(e) as being anticipated by Otten (US 2002/0071098).

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Regarding claim 1, Otten discloses a radiation focusing element having at least one surface provided with at lest one diffraction grating (17) that is distorted substantially according to a quadratic function (Fig. 1A; para. 0042).

Regarding claim 3, Otten discloses the focusing element surface comprises a radiation transmissive material (Fig. 1).

Regarding claim 4, Otten discloses only one surface of the lens is provided with the grating (Fig. 1).

Regarding claim 5, Otten discloses dispersion inherent in the grating is reduced by the lens itself or by at least one refractive element. Otten teaches all the claimed structural limitations and therefore is capable of performing all the claimed functional limitations (MPEP 2114).

Regarding claim 6, Otten discloses the grating is a phase grating (para. 0042).

Regarding claim 8, Otten discloses the grating is provided in a layer covering at least part of the surface (Fig. 1; para. 0041).

Regarding claim 9, Otten discloses the layer is made of a glassy composition (Fig. 1). The current specification defines glassy essential as transmissive (current spec. para. 0005).

Regarding claim 10, Otten discloses the layer is made of a radiation obscuring material (Figs. 1 and 1A).

Regarding claim 11, Otten discloses the layer is shape (Fig. 1).

Regarding claim 14, Otten discloses a mask (17) on at least one surface of the element to provide an aperture (Fig. 1).

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Regarding claim 15, Otten discloses the mask is provided in a layer on a single surface of the focusing element (Fig. 1).

Regarding claim 16, Otten discloses the mask and the grating are provided on the same surface of the focusing element (Fig. 1).

Regarding claim 18, Otten discloses use with optical radiation (Fig. 1).

Regarding claim 22, Otten discloses a three dimensional imaging system (para. 0055).

Regarding claim 23, Otten discloses a wavefront sensor (para. 0041).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 12-15, 17 and 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Otten (US 2002/0071098) in view of Pedersen (US 2002/0044285).

Regarding claims 2 and 12, Otten teaches the invention as claimed but lacks reference to a reflector. Pedersen teaches a diffractive surface used as a reflector (Fig. 1a). Pedersen teaches the reflector comprises a reflective layer on a substrate and the reflective layer is shaped to provide the grating (Fig. 1a). It would have been obvious to one of ordinary skill in the art at the

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time the invention was made to have the Otten invention include the reflective nature of Pedersen for the purpose of increasing the versatility of the Otten diffractive grating.

Regarding claim 13, Otten teaches the invention as claimed but lacks reference to a bulk element. Pedersen teaches the grating is provided in the surface of the bulk element itself (Fig. 1a). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the Otten invention include the bulk element of Pedersen for the purpose of providing the grating in a large assembly with a lens element.

Regarding claims 14, 15 and 17, Otten teaches the invention as claimed but lacks reference to a separate mask and grating. Pedersen teaches a mask (5) on at least one surface of the element to provide an aperture. Pedersen teaches the mask is provided on a single surface of the focusing element (Fig. 1a). Pedersen teaches the mask and grating are provided on opposite surfaces of the focusing element (Fig. 1a). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the Otten invention include the mask of Pedersen for the purpose of controlling the amount of light transmitted by the focusing element.

Regarding claims 19-21, Otten teaches the invention as claimed but lacks reference to the method of creating the grating. Pedersen teaches the use of embossing (para. 0044), etching (para. 0042) and moulding (para. 0044) to create gratings. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the Otten invention include the method of making the grating of Pedersen for the purpose of creating a grating in a precise known manner.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Otten (US 2002/0071098) in view of Deshmukh (US 2003/0186142).

Otten teaches the invention as claimed but lacks reference to an amplitude grating.

Deshmukh teaches an amplitude grating is functionally similar to a phase grating (abstract). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the Otten invention include an amplitude grating as taught by Deshmukh for the purpose of correcting the amplitude of an incident light beam.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua L. Pritchett whose telephone number is 571-272-2318. The examiner can normally be reached on Monday - Friday 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephone Allen can be reached on 571-272-2434. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joshua L Pritchett

Examiner Art Unit 2872